FuelCell Energy
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January 25, 2022

Representative Nathan Small
490 Old Santa Fe Trail
Santa Fe, NM 87501

RE: Support for House Bill 4 – Hydrogen Hub Development Act

Dear Representative Small,

FuelCell Energy Inc. (FCE) is proud to support House Bill 4 that will establish a Hydrogen Hub in New Mexico. FCE believes that hydrogen energy and storage is a critical part of greening our electric grid and fully committing to a renewable energy future.

FCE manufactures fuel cells that provide clean and reliable energy to customers around the world. FCE's fuel cells (1) produce power and can deliver solutions with additional features such as biogas clean-up; (2) provide heat recovery for combined heat and power; and (3) produce vehicle quality hydrogen for zero-emission vehicles. FCE is a global leader in the stationary fuel cell market, providing affordable and clean onsite energy to customers including wastewater treatment plants, hospitals, universities, industrial facilities, and serving utilities including at substations. FCE has been a participant for many years in clean energy programs in states across the US and has made meaningful contributions to achieving goals with respect to emissions reductions, microgrids, and biofuels.

FCE is developing solid oxide electrolyzer fuel cells that will efficiently use electricity and water to create hydrogen. This electrolyzer system will produce hydrogen as green as the electricity that is feeding into the fuel cell. FCE electrolyzers would be able to be paired with renewable energy projects like large-scale solar or wind farms to create 100% green hydrogen for vehicles or energy storage. Our electrolyzer systems will create hydrogen without creating any air emissions or pollution and can be accompanied with onsite storage capability. FCE's electrolyzers will be able to run in reverse, converting back the produced hydrogen into electricity through the very same fuel cell system.

FCE is also developing solutions that will convert waste methane gas, like what is produced from wastewater treatment plants, directly and without any combustion into hydrogen. Our fuel cells use electrochemistry to convert methane gas into hydrogen or electricity, preventing the harmful emissions and particulate matter that is produced from steam methane reforming or combustion. This gas-to-hydrogen application could give local governments the opportunity to produce hydrogen for vehicle fleets, to sell hydrogen to the public to generate revenue, or utilize it in an on-site energy storage application. Because FCE fuel cells can use this biogas onsite, wastewater facilities can harness our technology to generate revenue-creating electricity, use waste heat to improve the efficiency of their treatment systems, and end the flaring or venting of harmful methane emissions.

FCE hydrogen producing fuel cells would be perfect systems to help New Mexico become an important hydrogen hub in this country and to achieve the state's environmental ambitions to decarbonize and green its electricity and economy.

Once again, FCE is pleased to support HB 4 to establish New Mexico as a hydrogen energy leader in the US and to effectively move the state into a cleaner and greener energy future. Please do not hesitate to contact me with any questions or to ask for additional information related to our support, our technology, or to FCE as a company.

Sincerely,

Brady Borcherding
Director of Government Affairs, West Coast
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